

Fig. 2

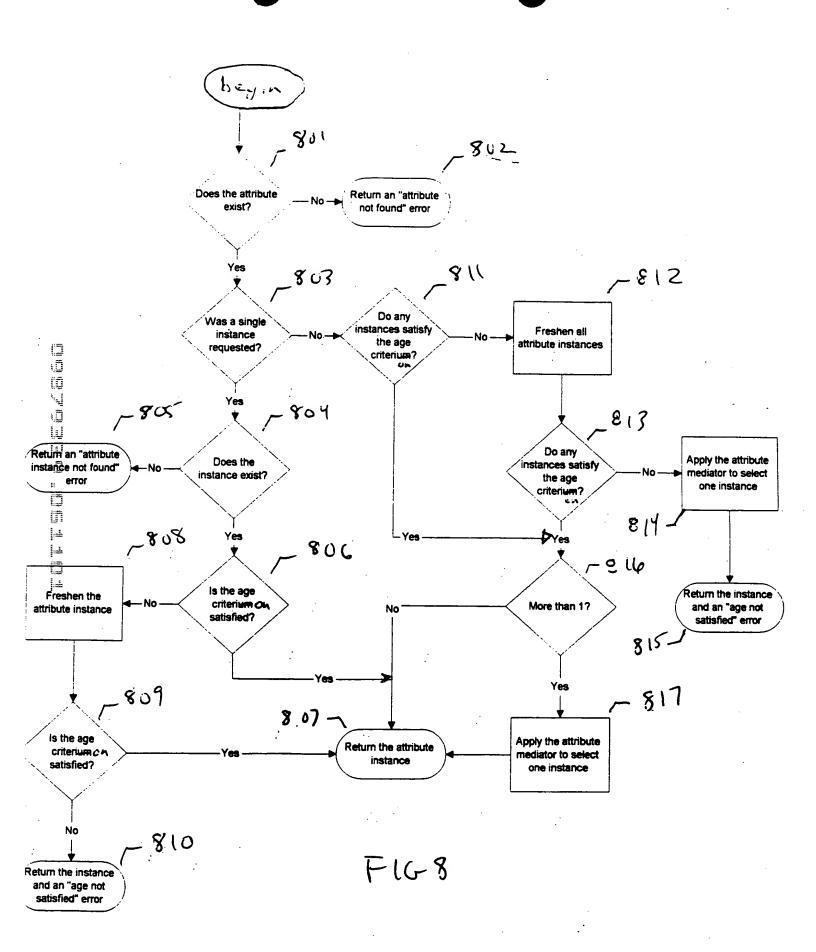
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context server table	request handler	(ce)	(eo)	ice)		attribute instance table	number of	context clients	2	2		0	1217
ຮ		(reference)	(reference)	(reference)	۲ ۷ /۶	attri	units		degrees/minutes	degrees/minutes	meters	none	67/6
	filename	gps.exe	ips.exe	l r a.exe	413		timestamp		13:11:04:023 2/22/2000	13.11.01.118 2/22/2000	13:11:01:118 2/22/2000	none	LS15
	installation date	2/10/2000	2/21/2000	2/10/2000	FIG 4		uncertainty		0,60°,0	0°.021'	۲.	none	3 FIG 5/4
-	version		/2	/2	ZIM 7		value		47° 38.73' N, 122° 18.43' W	47° 38.745' N, 122° 18.424' W	22	none	5127 7
		-	-	nalvsis 1	11 H L		context server	name	sd8	ips	ips	location_region_ analysis	15,
	context server name	gDS	sdi	location region analysis			attribute name		user.location	user location	user elevation	user in region	ا ا ا
		401	17	1	- .		L		SQL	775	33) je	• •

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							context client table	7 600
		context client name	name		me	message handler		
100	(201 location map			(reference)	ce)			
7	distance from home	me		(reference)	(e)			
	region analysis			(reference)	ce)			
<u>ر</u> ور		19/			J	ر د ر ک	٠	
				FIG 6			;	
						- -		.*
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						attr	attribute instance table	
•	attribute name	context server	value	uncertainty	timestamp	units	number of	
		name					context clients	
	•			•			consuming	
701	user location	sd8	47° 38.73' N, 122° 18.43' W	0°.09′	13:11:04.023 2/22/2000	degrees/minutes	2	
705	user location	sdi	47° 38.745' N, 122° 18.424' W	0°.021'	13:11:01.118 2/22/2000	degrees/minutes	2	
Z Z	user elevation	sdi	22	\$	13:11:01.118 2/22/2000	meters		
7	user.in_region	location_region_	none	none	none	none	-)
		and you				-		

FIG 7



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gps 47° 38.73' N, ips 0° 09' 13:11:04.023 13:11:04.023 degrees/minutes 2 constitutes 2 degrees/minutes 2 degrees/minutes 2 constitutes 2 degrees/minutes 2 degrees/minutes 2 constitutes 2 constit	attribute name	context server	value	uncertainty	timestamp	units	number of
gps 47° 38.73' N, 10° 09' 13:11:04:023 degrees/minutes 2 ips 47° 38.745' N, 122° 18.424' W 0° 021' 13:11:01:118 degrees/minutes 2 ips 122° 18.424' W 5 13:11:06.565 meters 1 region analysis none none none 1 1		name					context clients
gps 47° 38.73' N, 10° 09' 13:11:04:023 degrees/minutes 2 ips 47° 38.745' N, 122° 18.424' W 0° 021' 13:11:01:118 degrees/minutes 2 ips 122° 18.424' W 5 13:11:06.565 meters 1 ips 22.25 5 13:11:06.565 meters 1 region analysis none none none 1 41'							Consuming
ips 47° 38.745° N, 0° 021° 13.11.01.118 degrees/minutes 2 122° 18.424° W 2/22/2000 meters 1 region analysis none none none 1	user location	Sps	47° 38.73' N,	,60°,0	13:11:04:023	degrees/minutes	2
ips 47° 38.745' N, 10° 021' 13.11.01.118 and degrees/minutes 2 2/22/2000 ips 22.25 5 13.11.06.565 and ters 1 1 region analysis none none none 1 1			122 18.43 W		212212000		
ips 122° 18.424° W 2/22/2000 neters 1 n region analysis none none none none 1 - 9(-	location	Sai	47° 38.745' N,	0°.021	13:11:01.118	degrees/minutes	2
ips 22.25 S 13.11.06.565 meters 1		•	122° 18.424' W		2/22/2000		
region analysis none none none 1	elevation	Sui	22.25	\$	13:11:06.565	meters	
region analysis none none none none 11					2/22/2000		
911 705 FIRS FIRS 116	in region	region analysis	none	none	none	none	_
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A (0) A	1501)	FIG 10	<u>9</u> /	L1011 11017	J	
=	TRUE	none	user in region	region analysis	ool in region true	00
		parameter	parameter			
logical operator	comparison value	second logical	first logical	context client name	condition name	
condition table						

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condition condition condition behavior frequency condition last expendency trigger handler stopped stopped monitor name name name reference no region_bounda region_analysi in_region_true TRUE or FALSE 30 13:11:29:101 (reference) no ry crossed s FALSE FIG 11 - 1110							·	conditi	condition monitor table
TRUE or 30 13:11:29:101 (reference) no							Jack acitical last	trioger handler	
TRUE or 30 13.11.29.101 (reference) no 2/22/2000 13.11.29.101		condition	context client	condition	behavior	trequency	evaluated	reference	
TRUE or 30 13:11:29:101 (reference) 110 FALSE 2/22/2000 2/22/2000 13		amonitor nome	name	name				(00000)	Ç
13 / FIM / FIS / FIS / FIS / FIS / FIG / 13	•	region bounda	region_analysi	in_region_true		30	2/22/2000	(reference)	01
	١	ry crossed	S		FALSE	1			ムニノ
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stonned	,	VPS		8-2-1	-
trioger handler	reference	(roforonco)	(ופופופווכר)	(171)	
12.5 - 10.00	condition last	101 03 11 61	7/22/2000) I	01717
	frequency		30	,	FIG 12
	behavior			FALSE	1213 FIZI
	condition	name	region bounda region analysi in region true TRUE or		17 221
•	context client	name	region analysi	S	_
	condition	monitor name	region bounda	70/ / ry crossed	1217
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condition monitor table

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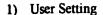
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attribute request table

attribute name	context client name
user.location	distance_from_home
user.in_region	location_map
user.location [gps]	location_region_analysis
user.elevation	location_map
/	2
- 1411	Figure 14 /4/2

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User.	Platform. (continued)
Desired_privacy_level	CPU.
Interruptibility	Load Fig. 15
Speed	5
Direction	Memory.
Acceleration	Total_capacity
Availability.	Used
Cognitive_availability	Storage.
Tactile availability	Total_capacity
Manual availability	Used
Visual_availability	Connectivity.
Oral availability	Connection_status
Auditory_availability	Connection_speed
Proximity. <item name="" or="" place=""></item>	Connection_type/device
Mood.	Connection_activity
Happiness	Power.
Sadness	Power_source
Anger	Power_level
Frustration	Environment.
Confusion	People.
Activity.	Nearest
Driving	Number present
Eating	Number close
	Local.
Running	Time
Sleeping	Date
Talking	Temperature
Typing	Pressure
Walking	Wind speed
Location.	Wind_direction
Place_name	Absolute_humidity
Latitude	High forecast_temperature
Longitude	Low forecast_temperature
Altitude	People_present
Room	Ambient noise_level
Floor	Ambient_light_level
Building	Days. <pre>previous or future>.</pre>
Address	High temperature
Street	Low temperature
City	Precipitation type
County	Precipitation_type Precipitation amount
State	Place. < place name>. (same as Environment. Local)
Country	•
Postal_Code	Application.
Destination. (same as User.Location.)	Mail.
Physiology.	Available
Pulse	New_messages_waiting
Body_temperature	Messages_waiting_to_be_sent
Blood_pressure	Phone.
Respiration	Available
Person. <name id="" or="">. (same as User.)</name>	In_use
Platform.	On/off
UI.	Notification_mechanism
Oral_input_device_availability	Call_incoming
Manual input_device_availability	Caller_ID
Tactile output_device_availability	Sound_recorder.
Visual output_device_availability	Available
Auditory_output_device_availability	Recording



- a) Mental Context
 - i) Meaning
 - ii) Cognition
 - (1) Divided User Attention
 - (2) Task Switching
 - (3) Background Awareness
 - iii) Solitude
 - iv) Privacy
 - (1) Desired Privacy
 - (2) Perceived Privacy
 - v) Social Context
 - vi) Affect
- b) Physical Situation
 - i) Body
 - (1) Biometrics
 - (2) Posture
 - (3) Motion
 - (4) Physical Encumberment
 - (a) Senses
 - (i) Eyes
 - (ii) Ears
 - (iii) Tactile
 - (iv) Hands
 - (v) Nose
 - (vi) Tongue
 - (b) Workload demands/effects
 - (c) Interaction with computer devices
 - (d) Interaction with people
 - (e) Physical Health
 - ii) Environment
 - (1) Time/Space
 - (2) Objects
 - (3) Persons
 - (a) Audience/Privacy Availability
 - (i) Scope of Disclosure
 - (ii) Hardware affinity for privacy
 - (iii) Privacy Indicator for User
 - (iv) Privacy Indicator for Public
 - (v) Watching Indicator
 - (vi) Being Observed Indicator
 - (4) Ambient Interference
 - (a) Visual
 - (b) Audio
 - (c) Tactile

2) Computer

- a) Power
- b) Configuration
 - i) User Input Systems
 - (1) Hand/Haptic
 - (a) Keyboard/Keystrokes
 - (2) Voice/Audio
 - (3) Eye Tracking
 - (4) Cursors
 - (a) Axis
 - (b) Resolution
 - (i) Selection
 - (ii) Invocation
 - (c) Accelerators
 - ii) Output Systems
 - (1) Visual
 - (a) Resolution
 - (2) Audio
 - (a) Public/Private
 - (3) Haptic
 - iii) External Resources
 - (1) I/O devices.
 - (2) Connectivity
- c) Data
 - i) Quantity/State
 - ii) Urgency/Importance
 - (1) Use of Prominence
 - iii) Modality
 - iv) Sensitivity/Purpose
 - (1) Privacy Issues
 - (2) Use of Association
 - (3) Use of Safety
 - v) Source/Ownership
 - (1) Types
 - (a) User generated
 - (b) Other computers or people.
 - (c) Sensor
 - (d) PC State
 - (2) Use of Association

Fig. 16

